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# BETTER CHRYSANTHEMUMS

1937



NEW VARIETY, ANNA KASKAS

THE question of cost, or the most economical method of producing our crops today, is quite as important as is the quality of our finished stock,—sometimes more so. This means that we must count costs.

In producing really good mum cuttings, figure the cost of a light bench through winter and spring for stock plants, insecticide bills to keep them clean, and sometimes loss of cuttings in the sand. An increasing number of large growers are finding, too, that propagating time hits them when they are so engaged with the Spring rush that it pays them for this reason alone to order all cuttings from responsible propagators for delivery when and as wanted. This plan starts the crop off with an unchecked uniform lot of plants,—an important advantage.

Depending upon a list such as you will find in this catalog has the further advantage of permitting you to select most suitable or the better varieties, and this is of first importance today.

SEND US A LIST EARLY OF YOUR MUM REQUIREMENTS.

On the last pages of this catalog will be found notes on mum growing, particularly the black cloth shading method for early flowering. This might interest you.

**GEO. J. BALL, Inc., West Chicago, Ill.**

# Please Note

## Ordering Early

The discount allowed on early orders and the greater assurance of delivery makes it important to order as early as you are in position to do so. The list of varieties offered in this catalog is the most extensive in America, and with such a list shortages do develop, *especially late in the season.*

Our improved facilities and increased supplies for the coming year cannot prevent some varieties selling out late in the season. All our stock is propagated for us at Barberton, Ohio, from where it is shipped. It is guaranteed clean, free of disease, well rooted, carefully packed, and to reach you in nice shape.

General increase of costs has made a slight price increase necessary this season, of Standard varieties, on 1000 lots. The 100 rate remains unchanged.

When fewer than 25 of a variety are ordered, charges will be made at the rate per 10.

25 of a variety will be billed at the 100 rate; 250 of a variety will be billed at the 1000 rate.

Following are the 100 rates on various classes, together with the rate on each per 10. We do not supply less than 10 of any variety, except first year Novelties.

Where the price per 100 is:

\$3.00	\$4.00	\$4.50	\$5.00	\$6.00	\$7.00	\$8.00	\$10.00	\$12.00	\$15.00
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The price per 10 is:

.50	.50	1.00	1.00	1.00	1.25	1.50	1.50	2.00	2.50
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## New Varieties

On this and following pages you will find the season's approved novelties. They are all from well known dependable raisers. We have personally acquainted ourselves with all these varieties; and if given a chance, they will be found a distinct advance in American Chrysanthemums.

### Novelty Section--Bristol Nurseries Introductions

MRS. MARY HOOKER

A vivid, striking, velvety crimson variety, ready to cut about November 15. The flowers are large, of the decorative pompon type, fully 3 inches across and are carried on strong branching sprays. Growth vigorous, attaining a height of 3 feet under good average culture. A first class producer with a color so rich that it appeals instantly to the market buyer.

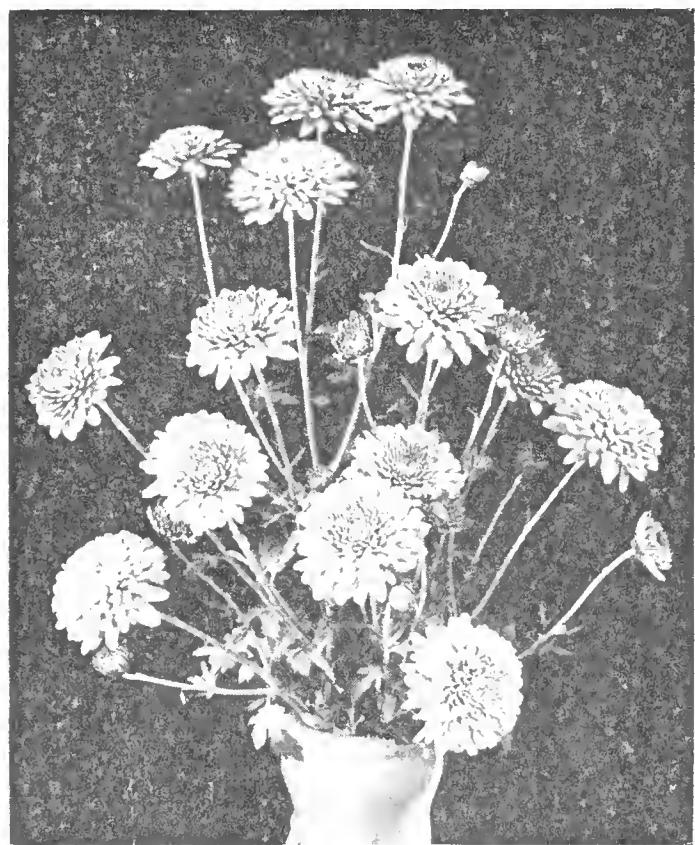
Price \$15.00 per 100 — \$125.00 per 1000.

### AUTUMN GLOW

Growers of pot plants will welcome this introduction for its luminous color which immediately attracts attention. It is a glowing bright red on opening, changing to vivid bronze red and remaining attractive for a long period. Flowers are 2½—3 inches across, quite double and of excellent texture. The plant is semi-dwarf, requires little pinching and particularly adaptable for pot culture.

Price \$15.00 per 100 — \$125.00 per 1000.

# Novelty Section -- De Petris Introductions



AVALON

## AVALON

A large flowered late pompon producing crisp blooms of coppery orange on rigid well formed sprays.

An excellent grower and producer, which matures for Thanksgiving and later.

Its rich coloring, excellent spray formation and productiveness makes this variety a welcome addition to the late flowering large pompon group.

Price \$15.00 per 100—  
\$125.00 per 1000

## CARNELIA

A late single of semi-dwarf but vigorous growth.

Strong stem and excellent foliage. May be grown in sprays or disbudded.

Its color is a bittersweet red and the date of maturity is from Thanksgiving into December.

Price \$15.00 per 100 — \$125.00 per 1000.

## CORAL BLAZE

A beautiful large anemone suitable for disbuds.

Color, coral orange, the blooms averaging up to 6 inches across when grown 7 to 8, to the plant.

The plant is vigorous in growth producing strong rigid stems 40 to 42 inches high with leathery foliage.

Matures in late November. An excellent and very attractive novelty for the retail grower.

Price \$15.00 per 100 — \$125.00 per 1000.

## ANNA KASKAS

A large commercial variety producing full rounded closely incurved blooms 6 to 7 inches across when grown two blooms to the plant.

Its color is a bright shade of golden bronze.

A good grower with excellent stem and foliage. Its habit of growth is vigorous attaining a height of five feet.

Select second crown or terminal buds Sept. 5th to 10th.

Matures Nov. 1st to Nov. 5th.

Price \$15.00 per 100 — \$125.00 per 1000.

## Novelty Section--De Petris Introductions (Continued)



SUNBURST

### SUNBURST

Good singles are becoming ever more popular with the retail trade, Sunburst is one of the very best singles in existence in almost every respect.

Its color is a brilliant shade of sunburst orange. The many petalled blooms are of good size and excellent substance carried on very strong stems.

An unusually healthy and vigorous grower with excellent foliage to the bottom of the plant.

The variety is very productive and matures for Thanksgiving and later. Because of its productiveness and its growing habit which does not exceed 3 ft., it is excellent for cutting or for pot plants.

Price \$15.00 per 100—  
\$125.00 per 1000

### CHROME EMERALD

A late flowering anemone pompon with excellent substance and keeping qualities. Color, golden orange with gold cushion.

An extremely free flowering variety producing many strong saleable sprays. A sturdy grower with excellent stem and foliage. It attains a height of three feet.

It matures the end of Nov. into early Dec. This variety too is excellent for pot plants requiring no staking.

Price \$15.00 per 100 — \$125.00 per 1000.

## Novelty Section--Yoder Bros. Introductions

### RED MELBA

Bright red sport of Melba. Holds its color whether disbudded or grown in sprays.

Price \$12.00 per 100 — \$100.00 per 1000.

### WHITE JEWELL

This sport from Jewell grown normally is white, slightly tinted with pink. Under dark cloth it matures pure white. For the latter method, we consider it most useful.

Price \$12.00 per 100 — \$100.00 per 1000.

# Large Flowering Commercial Varieties

## NOTE:

In this catalog are several duplications of names as follows:

**DECEMBER GLORY**—a large Mum.

**DECEMBER GLORY**—a Pompon.

**DIANA**—A white Pompon.

**DIANA**—A hardy Korean variety.

**INNOCENCE**—A hardy Korean Pompon.

**SMITH'S INNOCENCE**—A white Anemone.

When either of these varieties is ordered, kindly specify clearly which is intended.

Where variety **Gladys Pearson** is ordered, original stock will be shipped.

When **Dark Bronze Gladys Pearson** is requested, variety **Oak Leaf**, will be shipped.

Under Hardy Chrysanthemums we have listed variety "Amelia." This is identical with variety "Pink Cushion."

Name and Description	Height	Select Bud	Matures	Price Per 100	Price Per 1000
<b>Ambassador.</b> White. Largest early Chrysanthemum .....	Medium	Terminal Bud	Oct. 16-20	\$3.00	\$27.50
<b>Andrew Schmidt.</b> Pink. Dark sport of Seidewitz .....	Tall	Sept. 5	Thanksgiving and Later	3.00	27.50
<b>Antique.</b> Mahogany bronze. Sport of Dr. Enguehard .....	Medium	Sept. 5	Thanksgiving	3.00	27.50
<b>Apricot Queen.</b> Orange bronze.....	Medium	Sept. 5	Oct. 25	5.00	40.00
<b>Betsy Ross.</b> White .....	Tall	Aug. 25	Nov. 5	3.00	27.50
<b>Bronze Frick.</b> Bronze. Sport of Helen Frick .....	Short	Sept. 10	Thanksgiving	10.00	90.00
<b>Camilla.</b> White .....	Tall	Aug. 25	Oct. 18	3.00	27.50
<b>Cardonia.</b> Deep, rich yellow .....	Medium	Terminal Bud	Nov. 1-7	3.00	27.50
<b>Celestra.</b> Yellow .....	Medium	Terminal Bud	Oct. 10	3.00	27.50
<b>Chadwick, Bronze.</b> Bronze .....	Medium	Terminal Bud	Thanksgiving	3.00	27.50
<b>Chadwick, Golden.</b> Yellow .....	Medium	Terminal Bud	Thanksgiving	3.00	27.50
<b>Chadwick, Pink.</b> Pink .....	Medium	Terminal Bud	Thanksgiving	3.00	27.50
<b>Chadwick, White.</b> White .....	Medium	Terminal Bud	Thanksgiving	3.00	27.50
<b>Chas. Rager.</b> White .....	Medium	Sept. 15	Nov. 10	3.00	27.50
<b>Chas. W. Johnson.</b> White .....	Medium	Sept. 10	Oct. 25	3.00	27.50
<b>Chattanooga.</b> White .....	Medium	Sept. 20	Nov. 28	3.00	27.50
<b>Christina.</b> White. Sport of Rose Chochard .....	Short	Aug. 15	Oct. 20	3.00	27.50
<b>Chrysolora.</b> Yellow .....	Medium	Aug. 15	Oct. 15	3.00	27.50
<b>Citronella.</b> Yellow. Excellent ship- per .....	Short	Aug. 31	Oct. 25	3.00	27.50
<b>Clara B. Ford.</b> Yellow .....	Medium	Sept. 20	Nov. 20	3.00	27.50
<b>Columbus Dispatch.</b> Yellow. Large bloom .....	Medium	Sept. 1	Nov. 15	3.00	27.50
<b>Corona.</b> Deep Yellow .....	Tall	Terminal Bud	Oct. 25	3.00	27.50
<b>December Beauty.</b> White, tinged with pink .....	Medium	Oct. 1-10	Dec. 1	3.00	27.50
<b>December Glory.</b> White .....	Medium	Sept. 30	Dec. 1	3.00	27.50
<b>Detroit News.</b> Bronze .....	Medium	Aug. 30	Oct. 25	3.00	27.50

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# Large Flowering Commercial Varieties (Continued)

Name and Description	Height	Select Bud	Matures	Price	
				Per 100	Per 1000
Distinction. Pink .....	Medium	Terminal Bud	Thanksgiving	3.00	27.50
Dorianda. Bronze .....	Short	Aug. 25	Oct. 25	3.00	27.50
Dr. Enguehard. Rose pink .....	Medium	Sept. 5	Thanksgiving	3.00	27.50
Early Frost. White .....	Short	Early	Early	3.00	27.50
Edgar Stillman Kelly. White .....	Medium	Sept. 15	Nov. 15	3.00	27.50
Edwin Seidewitz. Bright pink .....	Tall	Sept. 5	Thanksgiving	3.00	27.50
Evening Glow. Yellow .....	Medium	Sept. 10	Oct. 25	5.00	40.00
Evening Star. Pink .....	Tall	Sept. 5	Nov. 1	3.00	27.50
Favorite. White .....	Tall	Sept. 5	Nov. 15	3.00	27.50
Floyd Gibbons. Salmon pink with buff reverse .....	Short	Sept. 15	Nov. 8	3.00	27.50
Friendly Rival. Golden yellow .....	Medium	Sept. 10	Thanksgiving	3.00	27.50
Garnet King. Red .....	Short	Sept. 20	Nov. 20-30	3.00	27.50
Gladys Pearson. Bronze .....	Medium	Sept. 30	Nov. 20-30	3.00	27.50
Glenview. Bronze .....	Short	Sept. 10	Nov. 24	3.00	27.50
Glitters. Bronze .....	Medium	Terminal Bud	Nov. 1	3.00	27.50
Gold Lode. Yellow .....	Medium	Aug. 25	Oct. 1	3.00	27.50
Golden Bronze. Golden yellow with tints of bronze .....	Tall	Terminal Bud	Oct. 25	3.00	27.50
Golden Celebration. Yellow .....	Tall	Sept. 15	Nov. 20	3.00	27.50
Golden Glory. Yellow .....	Short	Aug. 25	Nov. 1	3.00	27.50
Golden Glow. Imp. Yellow .....	Medium	July 10	Sept. 1	3.00	27.50
Golden Mrs. Ross. Golden yellow. Sport of Neia T. Ross .....	Tall	Early Oct.	Nov. 28	3.00	27.50
Golden October. Rich golden yellow	Medium	Terminal Bud	Oct. 10	3.00	27.50
Golden Pearson. Yellow .....	Medium	Sept. 30	Thanksgiving	3.00	27.50
Golden Queen. Yellow .....	Medium	Aug. 10	Oct. 25	3.00	27.50
Golden Tints. Bright yellow .....	Short	Aug. 5-25	Oct. 10	3.00	27.50
Golden Topaz. Golden yellow .....	Medium	Sept. 10	Nov. 10	3.00	27.50
Golden Wave. Yellow .....	Short	Sept. 5	Oct. 20	3.00	27.50
Good News. Yellow. Sport of the "Great News" .....	Medium	Aug. 30	Oct. 25	4.50	40.00
Governor Green. Crimson with a gold reverse .....	Short	Aug. 15	Oct. 15	3.00	27.50
Harvard. Crimson .....	Medium	Sept. 30	Nov. 30	3.00	27.50
Hazen S. Pingree. White. Fuchsia with pink .....	Tall	Aug. 25	Nov. 10	10.00	90.00
Helen Frick. Pink .....	Medium	Sept. 10	Thanksgiving	3.00	27.50
Hilda Bergen. Bronze .....	Short	Sept. 10	Oct. 25	3.00	27.50
Honey Dew. Yellow .....	Short	Terminal Bud	Nov. 15	3.00	27.50
Immaculate. White .....	Medium	Terminal Bud	Nov. 1-7	3.00	27.50
Imogene. Orange with golden re- verse .....	Short	Aug. 15	Oct. 25	3.00	27.50
Indianola. Light bronze .....	Medium	Aug. 25	Oct. 8	3.00	27.50
Josephine Lawler. Pink .....	Medium	Terminal Bud	Oct. 20	3.00	27.50
Justrite. Pink .....	Short	Terminal Bud	Oct. 15	3.00	27.50
J. W. Prince. Pink. (Improved Chieftain) .....	Short	Aug. 30	Nov. 1	3.00	27.50

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# Large Flowering Commercial Varieties (Continued)

Name and Description	Height	Select Bud	Matures	Price	
				Per 100	Per 1000
<b>Keystone.</b> Bronze .....	Medium	Aug. 30	Oct. 22	3.00	27.50
<b>Lemon Queen.</b> Yellow .....	Medium	Terminal Bud	Thanksgiving	3.00	27.50
<b>Leroy Zang.</b> Yellow. Sport of Golden Pearson .....	Medium	Sept. 30	Thanksgiving	7.00	65.00
<b>Lustre.</b> Pink .....	Short	Aug. 25	Oct. 8	3.00	27.50
<b>Major Bonnaffon.</b> Yellow .....	Short	Sept. 10	Nov. 20	3.00	27.50
<b>Major Edward Bowes.</b> Pink .....	Medium	Aug. 30	Oct. 16	15.00	125.00
<b>Marie de Petris.</b> Yellow .....	Short	Sept. 15	Nov. 25	3.00	27.50
<b>Mark Twain.</b> Bronze .....	Medium	Sept. 20	Nov. 20	10.00	90.00
<b>May Wallace.</b> Pink .....	Tall	Terminal Bud	Nov. 7	10.00	90.00
<b>Mefo.</b> White .....	Medium	Sept. 15	Nov. 20	3.00	27.50
<b>Mistletoe, Bronze.</b> Bronze .....	Medium	Sept. 30	Dec.	3.00	27.50
<b>Mistletoe, Golden.</b> Yellow .....	Medium	Sept. 30	Dec.	3.00	27.50
<b>Mistletoe, Pink.</b> Pink .....	Medium	Sept. 30	Dec.	3.00	27.50
<b>Mistletoe, White, Imp.</b> White .....	Medium	Sept. 30	Dec.	3.00	27.50
<b>Mohawk Chief.</b> Crimson .....	Medium	Oct. 1	Nov. 30	3.00	27.50
<b>Monument.</b> White .....	Medium	Sept. 10	Nov. 5-15	3.00	27.50
<b>Mrs. A. J. Stahelin.</b> Bronze with re- verse petals yellow .....	Medium	Terminal Bud	Nov. 15	3.00	27.50
<b>Mrs. Alex Laurie.</b> Light pink .....	Medium	Sept. 20	Nov. 15	3.00	27.50
<b>Mrs. David F. Roy.</b> Crimson with bronze reverse .....	Short	Sept. 15	Nov. 15	3.00	27.50
<b>Mrs. Franklin D. Roosevelt.</b> Bright yellow .....	Tall	Sept. 5-10	Nov. 15	3.00	27.50
<b>Mrs. H. E. Kidder.</b> Bright yellow .....	Medium	Aug. 25	Oct. 25	3.00	27.50
<b>Mrs. Helen K. Johnson.</b> Dark yellow Tall		Aug. 20	Oct. 28	3.00	27.50
<b>Mrs. Henry R. Rea.</b> White .....	Medium	Sept. 1	Oct. 25	5.00	40.00
<b>Mrs. Henry Robinson.</b> White .....	Medium	Early	Nov. 1	3.00	27.50
<b>Mrs. Wm. Thaw, Jr.</b> Yellow .....	Tall	Terminal Bud	Nov. 10	3.00	27.50
<b>McNiece.</b> Pink .....	Short	Terminal Bud	Oct. 25	3.00	27.50
<b>Nioto.</b> Bronze tan .....	Medium	Terminal Bud	Nov. 1	12.00	100.00
<b>Oak Leaf.</b> Dark bronze .....	Medium	Sept. 30	Nov. 20-30	3.00	27.50
<b>Oconto.</b> White .....	Medium	Aug. 25	Oct. 15	3.00	27.50
<b>October Rose.</b> Pink .....	Medium	Terminal Bud	Oct. 18	3.00	27.50
<b>Okeda.</b> Reddish bronze .....	Tall	Aug. 1-10	Oct. 1-10	3.00	27.50
<b>Old Rose.</b> Pleasing shade of old rose .....	Medium	Terminal Bud	Early Nov.	3.00	27.50
<b>Oscoda.</b> Light lavender with silvery sheen .....	Medium	Sept. 1	Oct. 30	3.00	27.50
<b>Peter John.</b> Light pink. Sport of Thanksgiving Pink .....	Short	Sept. 15	Thanksgiving	10.00	90.00
<b>Pink Beauty.</b> Pink .....	Short	Terminal Bud	Oct. 20	12.00	100.00
<b>Pink Chief.</b> Pink. Very good early pink .....	Tall	Terminal Bud	Oct. 12	3.00	27.50
<b>Pink Delight.</b> Rose pink .....	Tall	Sept. 10	Nov. 1	3.00	27.50
<b>Pink Globe.</b> Pinkish lavender .....	Medium	Sept. 20	Nov. 10	3.00	27.50
<b>Pink Treasure.</b> Pink .....	Short	Sept. 20	Nov. 10	3.00	27.50
<b>Quaker Maid.</b> White .....	Medium	Aug. 25	Oct. 5	3.00	27.50
<b>R. B. Mellon.</b> Light bronze .....	Tall	Sept. 1	Nov. 1	12.00	100.00

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# Large Flowering Commercial Varieties (Continued)

Name and Description	Height	Select Bud	Matures	Price	
				Per 100	Per 1000
Reality. Pink .....	Medium	Aug. 5	Oct. 20	3.00	27.50
Richmond. Yellow .....	Medium	Aug. 25	Nov. 1	3.00	27.50
R. M. Calkins. Golden yellow.....	Medium	Sept. 20	Nov. 25-30	3.00	27.50
Rosa Raisa. Pink .....	Short	Sept. 20	Thanksgiving	3.00	27.50
Rose Chochard. Pink .....	Short	Aug. 15	Oct. 20	3.00	27.50
Rose Glory. Pink .....	Medium	Terminal Bud	Oct. 15-20	3.00	27.50
Rose Marie. Pink .....	Tall	Aug. 5	Oct. 1	3.00	27.50
Rose Perfection. Pink .....	Short	Sept. 10	Nov. 5-10	3.00	27.50
Secretary Nehrling. Bright yellow....	Medium	Aug. 15-20	Nov. 15-20	3.00	27.50
Silver Dawn. White .....	Tall	Aug. 25	Oct. 18-20	3.00	27.50
Silver Sheen. White .....	Medium	Aug. 30	Oct. 20	3.00	27.50
Smith's Early White. White .....	Tall	Aug. 10	Oct. 2	3.00	27.50
Smith's Late White. White .....	Short	Sept. 30	Dec. 15	3.00	27.50
Smith's Peerless. White .....	Medium	Sept. 15	Thanksgiving	3.00	27.50
Smith's Superlative. Bright yellow....	Medium	Aug. 25	Oct. 25	3.00	27.50
Snow White. White .....	Medium	Terminal Bud	Nov. 1	3.00	27.50
Spotless. White .....	Short	Aug. 25	Oct. 20	10.00	90.00
Stately White. White .....	Medium	Terminal Bud	Nov. 1	3.00	27.50
Sunbeam. Bright yellow .....	Medium	Sept. 20	Thanksgiving	3.00	27.50
Sunglow. Yellow .....	Medium	Aug. 15	Oct. 25	3.00	27.50
Sun Gold. Yellow .....	Medium	Sept. 30	Thanksgiving	3.00	27.50
Tekonsha. Bronze .....	Medium	Sept. 10	Thanksgiving	3.00	27.50
Thanksgiving Pink. Dark pink .....	Short	Sept. 15	Thanksgiving	3.00	27.50
Timothy Eaton. White .....	Tall	Sept. 15	Nov. 20	3.00	27.50
Tints of Gold. Bronze .....	Medium	Aug. 15	Oct. 10	3.00	27.50
Tobin's Late Yellow. Yellow. Sport of Smith's Late White .....	Short	Sept. 30	Dec. 15	8.00	75.00
Tom Browne. White .....	Medium	Terminal Bud	Nov. 20-30	3.00	27.50
White Chief. White. Good com- mercial .....	Short	Terminal Bud	Oct. 18	3.00	27.50
White Chieftain. White .....	Short	Aug. 31	Nov. 1	3.00	27.50
White Distinction. White .....	Medium	Terminal Bud	Thanksgiving	3.00	27.50
White Frick. White. Sport of Helen Frick .....	Short	Terminal Bud	Thanksgiving	3.00	27.50
Whittier. Yellow .....	Medium	Sept. 15	Nov. 15	3.00	27.50
William Didden. Yellow. Sport of Indianola .....	Medium	Aug. 25	Oct. 8	3.00	27.50
Yellow Ambassador. Yellow. Sport of Ambassador .....	Medium	Terminal Bud	Oct. 16-20	7.00	65.00
Yellow Chattanooga. Light yellow....	Medium	Sept. 20	Nov. 28	3.00	27.50
Yellow December Glory. Light yel- low .....	Medium	Sept. 30	Dec. 1-10	5.00	40.00
Yellow Frost. Yellow .....	Short	Early	Early	3.00	27.50
Yellow Gold. Bright golden yellow..	Tall	Terminal Bud	Nov. 1-15	3.00	27.50
Yellow Gown. Yellow .....	Tall	Aug. 10	Oct. 15	10.00	90.00
Yellow Mefo. Yellow. Sport of Mefo	Medium	Sept. 15	Nov. 20	3.00	27.50
Yellow Monument. Yellow. Sport of Monument .....	Medium	Sept. 10	Nov. 5-15	3.00	27.50

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# Exhibition Varieties

Name and Description	Height	Select Bud	Matures	Price	
				Per 100	Per 1000
Alice Benson. White .....	Medium	2nd Crown	Nov. 1	\$8.00	\$75.00
Carrie Beinecke. Golden bronze.....	Medium	Aug. 20	Oct. 25-Nov. 1	8.00	75.00
Dr. J. M. Inglis. Wine purple am-					
aranth with silver reverse.....	Tall	Aug. 25	Nov. 1	8.00	75.00
Earl Kitchener. Bronze .....	Medium	Aug. 20	Nov. 10	8.00	75.00
Elberon. Pink .....	Medium	Aug. 30	Nov. 1	8.00	75.00
Francine. Rose with pinkish buff re-					
verse .....	Medium	Aug. 15	Nov. 15	8.00	75.00
General Pershing. Pink .....	Medium	Aug. 20	Nov. 1	8.00	75.00
Golden Majestic. Bright yellow.....	Medium	Aug. 20	Oct. 25-Nov. 1	8.00	75.00
Grace Sturgis. Wine red with pink-					
ish-silver reverse .....	Tall	Aug. 25	Oct. 20	6.00	50.00
John S. Bush. White .....	Medium	Aug. 15	Oct. 15	8.00	75.00
J. R. Booth. Yellow .....	Medium	Aug. 15	Nov. 1	8.00	75.00
La France. Purple .....	Medium	Aug. 15	Oct. 28	6.00	50.00
Louisa Pockett. White .....	Medium	Aug. 10	Nov. 1-15	8.00	75.00
Majestic. Clear, shiny amber bronze	Medium	Aug. 20	Oct. 25	8.00	75.00
Marian H. Uffinger. Bronzy crimson					
with a gold reverse .....	Medium	Aug. 20-25	Nov. 1	8.00	75.00
Miss Millicent Rogers. Bronzy pink..	Medium	Aug. 25	Oct. 20	8.00	75.00
Miss Rita Mitchell. Salmon bronze					
with fawn reverse .....	Medium	Aug. 25	Nov. 5	8.00	75.00
Mrs. B. D. Spillman. Apricot orange	Medium	Aug. 20	Nov. 1	8.00	75.00
Mrs. G. G. Mason. Blood red with					
golden reverse .....	Medium	Aug. 20	Oct. 25-Nov. 1	8.00	75.00
Mrs. H. S. Firestone. Chamois buff	Short	Aug. 25	Nov. 1	8.00	75.00
Mrs. Jules Leeds. Blood red.....	Short	Aug. 25	Nov. 10	8.00	75.00
Mrs. Kershaw. Bronze .....	Short	Aug. 15	Nov. 1	8.00	75.00
Mrs. Woodrow Wilson.					
White .....	Medium	Aug. 15	Oct. 15	8.00	75.00
Nagirroc. Golden bronze .....	Medium	Aug. 15	Nov. 1	8.00	75.00
Nellie Mitchell. Yellow suffused with					
bronze .....	Tall	Aug. 25	Nov. 1	8.00	75.00
Nerissa. Rosy Lavender .....	Medium	Sept. 5	Nov. 5	8.00	75.00
Niagara. White .....	Medium	Aug. 15	Nov. 5	8.00	75.00
Pockett's Crimson. Crimson with					
golden reverse .....	Short	Aug. 25	Oct. 25	8.00	75.00
Red Majestic. Bronzy red .....	Medium	Aug. 25	Nov. 1	8.00	75.00
Rosanda. Old rose .....	Tall	Sept. 10	Nov. 1	8.00	75.00
Thos. W. Pockett. Pink .....	Medium	Aug. 10	Nov. 1-15	8.00	75.00
Turner, Bronze. Light bronze.....	Medium	Aug. 25	Nov. 5	6.00	50.00
Turner, Pink. (Mrs. Leslie Davis)					
Pink .....	Medium	Aug. 25	Nov. 5	6.00	50.00
Turner, William. White .....	Medium	Aug. 25	Nov. 5	6.00	50.00
Turner, Yellow. Yellow .....	Medium	Aug. 25	Nov. 5	6.00	50.00
Vermont. Pink .....	Tall	Aug. 10	Nov. 1-15	8.00	75.00
Wells Late Buff. Pinkish creamy buff	Short	Sept. 10	Nov. 5	8.00	75.00
W. H. Waite. Bronze .....	Short	Aug. 15	Nov. 5	6.00	50.00
W. H. Waite, Imp. Red.....	Short	Aug. 15	Nov. 5	6.00	50.00
William Hazelhurst. Pink .....	Short	Aug. 25	Oct. 29	8.00	75.00
Yellow Pockett. Yellow .....	Medium	Aug. 10	Nov. 1-15	8.00	75.00

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# Odd Formed--Feathery and Threadlike--Varieties

Name and Description	Height	Select Bud	Matures	Price	
				Per 100	Per 1000
Patricia Grace. Shell pink .....	Medium	Terminal Bud	Nov. 5	\$10.00	\$90.00
Peggy Ann Hoover. Lavender .....	Short	Terminal Bud	Nov. 5	10.00	90.00
Pride of Tokyo. Creamy pink. A novelty with odd tubular petals..	Tall	Aug. 25	Nov. 10	10.00	90.00
Rayonnante. Pale rose pink .....	Medium	Terminal Bud	Nov. 5	10.00	90.00

## Pompons--Large Flowering and Button Types

Under the heading of type, we attempt to classify pompons into large pompons and button types. The distinction is largely one of size, tho the latter classification contains more of the true, compact rounded type than the former.

Name and Description	Height	Type	Matures	Price	
				Per 100	Per 1000
*Acto. Rose pink .....	Medium	L. Pompon	Nov. 1	\$3.00	\$27.50
Adelphia. White .....	Short	L. Pompon	Oct. 15	3.00	27.50
Alecia. Bronze .....	Medium	L. Pompon	Oct. 30	3.00	27.50
†Alice. Pink .....	Medium	L. Pompon	Nov. 15	3.00	27.50
*Angello. Light pink .....	Short	L. Pompon	Oct. 25	3.00	27.50
Annette. Pink .....	Medium	S. Button	Oct. 30	15.00	125.00
Autumn Glints. Yellow with crimson center .....	Medium	L. Pompon	Nov. 1	3.00	27.50
Azora. Light pink .....	Tall	L. Pompon	Oct. 25	3.00	27.50
†Baby. Yellow .....	Short	S. Button	Nov. 10	3.00	27.50
†*Ball of Gold. Yellow .....	Medium	L. Pompon	Nov. 20	3.00	27.50
Becky McLane. Bronze .....	Medium	Button	Nov. 25	3.00	27.50
Betty Price. Brilliant orange suffused with light bronze .....	Medium	Button	Nov. 25	3.00	27.50
Betty Watkins. Bronzy yellow .....	Medium	L. Pompon	Thanksgiving	3.00	27.50
Beuneta. Bronze tipped with gold....	Medium	L. Button	Nov. 25	8.00	75.00
Big Baby. Yellow .....	Medium	Button	Thanksgiving	3.00	27.50
Bobbie. Creamy white .....	Medium	L. Pompon	Nov. 15-20	3.00	27.50
Bokhara. Bronze .....	Medium	L. Pompon	Oct. 25	3.00	27.50
†Bonnibell. Orange buff .....	Short	L. Pompon	Oct. 15	3.00	27.50
Bonnie Maid. Pink .....	Medium	Button	Oct. 18	3.00	27.50
†Bright Eyes. Bluish white with apricot eye .....	Short	Button	Nov. 1	3.00	27.50
Bristolite. Bronze .....	Medium	L. Pompon	Thanksgiving	4.00	35.00
*Bronze Acto. Bronze. Sport of Acto	Medium	L. Pompon	Nov. 1	4.00	35.00
Bronze Beauty. Bronze .....	Medium	L. Pompon	Thanksgiving	4.00	35.00
Bronze Doty. Bronze .....	Medium	L. Pompon	Nov. 1	3.00	27.50
Bronze Ermalinda. Dark bronze .....	Medium	L. Pompon	Oct. 25	3.00	27.50
Bronze Queen. Dark bronze .....	Tall	Button	Oct. 25	3.00	27.50

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# Pompons-Large Flowering and Button Types (Continued)

Name and Description	Height	Type	Matures	Price Per 100	Price Per 1000
<b>Bronze Usona.</b> Bronze .....	Medium	L. Pompon	Thanksgiving	3.00	27.50
<b>Brownie.</b> Dark bronze .....	Medium	S. Button	Nov. 10	5.00	40.00
<b>Buttercup.</b> Yellow .....	Tall	L. Pompon	Dec. 5	8.00	75.00
<b>Campfire.</b> Red .....	Tall	L. Pompon	Nov. 20	4.00	35.00
<b>Capt. Cook.</b> Pink .....	Tall	L. Pompon	Oct. 20	3.00	27.50
<b>Cecile.</b> Yellow .....	Medium	S. Button	Nov. 10	15.00	125.00
<b>Chicago Pearl.</b> White .....	Medium	L. Pompon	Nov. 15	3.00	27.50
<b>Christmas Gold.</b> Bright yellow .....	Medium	S. Button	Dec. 1	3.00	27.50
<b>Clara Jameson, Imp.</b> Bronze .....	Medium	Button	Oct. 16	3.00	27.50
<b>Clare.</b> White .....	Short	S. Button	Nov. 15	3.00	27.50
<b>Claudette.</b> Yellow .....	Short	Button	Oct. 30	5.00	40.00
<b>Clista.</b> Yellow .....	Short	S. Button	Nov. 10	5.00	40.00
<b>Clorinda.</b> Bronze .....	Medium	L. Pompon	Thanksgiving	3.00	27.50
<b>Cora Peck Buhl.</b> Yellow.....	Tall	L. Pompon	Oct. 25	3.00	27.50
<b>Cordova.</b> White. A good late variety	Medium	L. Pompon	Thanksgiving	3.00	27.50
<b>*Crystal White.</b> White .....	Tall	L. Pompon	Nov. 10	3.00	27.50
<b>Dainty Maid.</b> White, with pink tints in some stages .....	Medium	S. Button	Nov. 1	3.00	27.50
<b>December Glory (Kramers).</b> White	Medium	L. Pompon	Dec.	7.00	65.00
<b>Diana.</b> White .....	Medium	L. Pompon	Nov. 20	3.00	27.50
<b>Dorothy Turner.</b> Bronze .....	Medium	L. Pompon	Thanksgiving	3.00	27.50
<b>†Dotson.</b> Old rose .....	Short	Button	Oct. 20	3.00	27.50
<b>Dream.</b> Pink .....	Medium	L. Pompon	Nov. 20	3.00	27.50
<b>Earliwhite.</b> White .....	Medium	L. Pompon	Oct. 10	3.00	27.50
<b>*Edith Newberry.</b> Orange rust .....	Tall	L. Pompon	Nov. 5	3.00	27.50
<b>Elora.</b> Pearly white .....	Tall	L. Pompon	Nov. 1-10	3.00	27.50
<b>Emelie.</b> Pure white .....	Short	S. Button	Oct. 30	15.00	125.00
<b>Ermalinda.</b> Old rose .....	Medium	L. Pompon	Oct. 25	3.00	27.50
<b>†Ethel.</b> Bronze .....	Medium	Button	Oct. 25	3.00	27.50
<b>Fez.</b> Chestnut-crimson .....	Medium	Button	Nov. 10	6.00	50.00
<b>*Fire Ball.</b> Bright crimson .....	Tall	L. Pompon	Nov. 2	3.00	27.50
<b>Fire Bird.</b> Red bronze .....	Medium	L. Pompon	Oct. 25	3.00	27.50
<b>†Frank Wilcox, Jr.</b> Bronze .....	Short	Button	Thanksgiving	3.00	27.50
<b>Galva.</b> Bronze with golden reverse....	Medium	S. Button	Oct. 30	5.00	40.00
<b>Ginza.</b> Yellow .....	Medium	L. Pompon	Oct. 30	3.00	27.50
<b>Glow.</b> Orange. Reddish orange at center .....	Tall	L. Pompon	Thanksgiving	8.00	75.00
<b>*Gold Coin.</b> Yellow .....	Medium	L. Pompon	Dec. 1	3.00	27.50
<b>Gold Drop.</b> Old Gold .....	Medium	L. Pompon	Nov. 1	3.00	27.50
<b>Gold Finch.</b> Deep, rich yellow .....	Medium	L. Pompon	Oct. 20	3.00	27.50
<b>†Gold Mine.</b> Yellow .....	Short	Button	Nov. 1	3.00	27.50
<b>Gold Tips.</b> Bronze and gold .....	Medium	L. Pompon	Thanksgiving	3.00	27.50
<b>Golden Climax.</b> Yellow .....	Medium	Button	Nov. 15	3.00	27.50
<b>Golden Fleece.</b> Yellow .....	Medium	L. Pompon	Nov. 25	12.00	100.00
<b>†Golden Fringe.</b> Very bright yellow	Short	Button	Nov. 20	3.00	27.50
<b>†Golden Gimp.</b> Bright yellow with a very slight apricot tinge on reverse side .....	Medium	Button	Nov. 5	3.00	27.50

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# Pompons-Large Flowering and Button Types (Continued)

Name and Description	Height	Type	Matures	Price Per 100	Price Per 1000
* <b>Golden Herald.</b> Deep golden yellow .....	Medium	L. Pompon	Oct. 10-15	3.00	27.50
<b>Golden Nymph.</b> Bronze, with reverse of petals gold .....	Medium	S. Button	Dec. 10	3.00	27.50
<b>Golden Sceptre.</b> Bright yellow.....	Tall	L. Button	Nov. 25	3.00	27.50
<b>Golden Splendor.</b> Bright yellow .....	Medium	L. Pompon	Nov. 6	5.00	40.00
<b>Golden Varsity.</b> Yellow. Sport of Varsity, deeper shade .....	Short	S. Button	Nov. 10	3.00	27.50
† <b>Governor Lake.</b> Reddish bronze.....	Short	L. Pompon	Thanksgiving	3.00	27.50
<b>Grenadier.</b> Rich, deep red .....	Medium	L. Pompon	Nov. 10	3.00	27.50
<b>Greta.</b> White .....	Medium	L. Pompon	Oct. 20	3.00	27.50
<b>Hasegawa.</b> Gold-yellow .....	Medium	L. Pompon	Dec. 1	3.00	27.50
* <b>Henrietta.</b> Lavender .....	Tall	L. Pompon	Oct. 20	10.00	90.00
<b>Hiight Lights.</b> Fully developed—white with salmon eye .....	Tall	Button	Nov. 3	5.00	40.00
<b>Hilda Canning.</b> Bronze .....	Tall	Button	Nov. 25	3.00	27.50
<b>Ida, Imp.</b> Yellow .....	Medium	L. Pompon	Oct. 10	3.00	27.50
† <b>Irene.</b> White .....	Short	Button	Oct. 15-20	3.00	27.50
* <b>Irene Rich.</b> Pink .....	Medium	L. Pompon	Nov. 1	3.00	27.50
<b>Iridescent.</b> Gold and pink in various shades .....	Medium	L. Pompon	Oct. 15	3.00	27.50
<b>Jemima.</b> Bronze .....	Medium	L. Button	Oct. 28	3.00	27.50
† <b>Jewell.</b> Bright pink .....	Short	L. Button	Oct. 1-15	3.00	27.50
<b>Joan.</b> Bronzy orange .....	Medium	L. Pompon	Nov. 20	3.00	27.50
<b>Joan Wells.</b> Bronze. Sport of Pink Dot .....	Medium	L. Pompon	Oct. 25	3.00	27.50
<b>Justine Miller.</b> Reddish bronze .....	Medium	Button	Nov. 20-25	3.00	27.50
<b>Juva Nicholson.</b> Yellow .....	Medium	L. Pompon	Nov. 15	3.00	27.50
<b>La Vera.</b> Pink .....	Medium	L. Pompon	Nov. 1-10	3.00	27.50
<b>Legal Tender.</b> Bronze and gold .....	Medium	L. Pompon	Nov. 20	3.00	27.50
<b>Leileh.</b> Rose pink .....	Tall	L. Pompon	Oct. 15	3.00	27.50
<b>Letha.</b> Reddish brown .....	Medium	Button	Oct. 25	5.00	40.00
<b>Letitia.</b> White with pink center.....	Tall	L. Button	Oct. 15	3.00	27.50
<b>Lilac.</b> Pink .....	Tall	L. Pompon	Oct. 15	3.00	27.50
* <b>Lillian Doty.</b> Shell pink .....	Medium	L. Pompon	Nov. 1	3.00	27.50
<b>Lizzie Adcock</b> (Yellow Source d'Or) .....	Medium	L. Pompon	Nov. 1	3.00	27.50
† <b>Lois.</b> Golden yellow .....	Medium	Button	Nov. 18	3.00	27.50
<b>Louise Davenport.</b> Bronze .....	Medium	Button	Nov. 10	3.00	27.50
<b>Lucinda.</b> Deep pink .....	Tall	L. Pompon	Nov. 12-20	3.00	27.50
<b>Magatha.</b> White with dark eye.....	Medium	L. Pompon	Nov. 10	10.00	90.00
<b>Marcella.</b> Light pink .....	Medium	L. Button	Nov. 25 & Later	3.00	27.50
<b>Marguerite Clark.</b> Rose pink .....	Medium	Button	Nov. 5	3.00	27.50
* <b>Marianna.</b> White .....	Medium	L. Pompon	Nov. 1-5	3.00	27.50
<b>Marie.</b> Bronze .....	Short	S. Button	Nov. 5	15.00	125.00
<b>Marilyn.</b> Orange tan .....	Medium	L. Pompon	Oct. 22	3.00	27.50
<b>Mary Lennon Hall.</b> Clear, rich yellow .....	Tall	L. Pompon	Nov. 1	3.00	27.50
† <b>Mary Pickford.</b> White .....	Short	Button	Nov. 1	3.00	27.50

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# Pompons-Large Flowering and Button Types (Continued)

Name and Description	Height	Type	Matures	Price Per 100	Price Per 1000
* <b>Masaka.</b> Yellow .....	Medium	L. Pompon	Oct. 20	5.00	40.00
* <b>Masterpiece.</b> Tourmaline pink .....	Medium	L. Pompon	Nov. 15	3.00	27.50
<b>Minong.</b> White .....	Short	Button	Oct. 20-25	3.00	27.50
<b>Modena.</b> Yellow .....	Medium	L. Button	Nov. 30	3.00	27.50
† <b>Mrs. Beu.</b> Bronze .....	Short	L. Pompon	Thanksgiving	3.00	27.50
<b>Mrs. N. G. Moore.</b> Pure white. Sport of Olivia .....	Medium	L. Pompon	Dec. 1-10	5.00	40.00
<b>Muriel.</b> White .....	Short	Button	Nov. 25	10.00	90.00
* <b>Muskoka.</b> Bronze .....	Tall	L. Pompon	Nov. 10	3.00	27.50
<b>My Pride.</b> Pink .....	Tall	L. Pompon	Oct. 20	3.00	27.50
<b>Nellie Kleris.</b> Lavender pink .....	Tall	L. Pompon	Oct. 25	3.00	27.50
<b>New York.</b> Bronze .....	Medium	Button	Nov. 15	3.00	27.50
<b>Norrine.</b> Yellow .....	Medium	Button	Nov. 25	3.00	27.50
† <b>November Bronze.</b> Orange bronze	Medium	L. Pompon	Nov. 15	3.00	27.50
<b>November Gold.</b> Yellow .....	Medium	L. Pompon	Nov. 15	3.00	27.50
<b>Nubian.</b> Bronzy red .....	Tall	L. Pompon	Oct. 15-20	3.00	27.50
† <b>Nuggets.</b> Yellow .....	Short	Button	Oct. 25	3.00	27.50
<b>Olivia.</b> Pink .....	Medium	L. Pompon	Dec.	3.00	27.50
† <b>Onargo.</b> Light bronze .....	Medium	L. Button	Nov. 1	3.00	27.50
<b>Ouray.</b> Dark scarlet .....	Medium	L. Pompon	Oct. 25	3.00	27.50
<b>Pagosa.</b> Dark pink .....	Medium	L. Pompon	Dec. 5	3.00	27.50
† <b>Patsy Dowd.</b> Red .....	Short	Button	Nov. 5	3.00	27.50
<b>Pauline Wilcox.</b> Bronze .....	Medium	L. Pompon	Nov. 5	3.00	27.50
<b>Pink Dot.</b> White, with bright pink center .....	Medium	L. Pompon	Oct. 25	3.00	27.50
<b>Pink Popcorn.</b> Pink .....	Medium	S. Button	Oct. 30	3.00	27.50
<b>Princeton.</b> Golden yellow suffused with orange .....	Medium	L. Pompon	Nov. 15	4.00	35.00
† <b>Red Beu.</b> Reddish bronze .....	Short	L. Pompon	Thanksgiving	3.00	27.50
<b>Robin Hood.</b> Rich deep red .....	Medium	Button	Early Nov.	3.00	27.50
† <b>Rodell.</b> Yellow .....	Short	Button	Oct. 15	3.00	27.50
† <b>Rodell, Imp.</b> Sport of Rodell, pro- ducing larger flowers .....	Short	Button	Oct. 20	4.00	35.00
<b>Roman Bronze.</b> Bronze. Sport of Capt. Cook .....	Medium	L. Pompon	Nov. 5	3.00	27.50
* <b>Romola.</b> Soft pink .....	Tall	L. Pompon	Oct. 20	5.00	40.00
* <b>Rose Charm.</b> Rose pink .....	Medium	L. Pompon	Nov. 1	3.00	27.50
<b>Roselea.</b> Pink .....	Tall	L. Pompon	Dec. 1	3.00	27.50
<b>Rowenna.</b> Bronze .....	Tall	L. Pompon	Thanksgiving	3.00	27.50
<b>Royal Queen.</b> White .....	Medium	L. Pompon	Dec. 5	3.00	27.50
<b>Sarda.</b> Deep pink. Sport of Pink Dot	Medium	L. Pompon	Oct. 25	3.00	27.50
* <b>Sea Gull.</b> White. Excellent for sprays or disbudded .....	Medium	L. Pompon	Nov. 1	3.00	27.50
* <b>Silver Ball.</b> White .....	Medium	L. Pompon	Oct. 12	3.00	27.50
<b>Silver Star.</b> White. Desirable for those who want very late varieties	Tall	L. Pompon	Dec. 5	3.00	27.50
<b>Silver Tips.</b> Bright pink with silver tips .....	Medium	L. Pompon	Nov. 10	3.00	27.50
<b>Snow Bird.</b> White .....	Medium	L. Pompon	Nov. 15	3.00	27.50

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## Pompons-Large Flowering and Button Types (Continued)

Name and Description	Height	Type	Matures	Price	
				Per 100	Per 1000
Snow Cloud. White .....	Medium	L. Pompon	Oct. 15	3.00	27.50
Solonore. Bronzy red. Small anemone cushion when fully developed.....	Medium	L. Pompon	Nov. 15	12.00	100.00
Source d'Or. Bronze .....	Medium	L. Pompon	Nov. 1	3.00	27.50
Spanish Gold. Yellow .....	Medium	L. Pompon	Nov. 5	12.00	100.00
Stardust. Yellow .....	Tall	L. Pompon	Dec. 1	7.00	65.00
Suntan. Bronze .....	Medium	L. Pompon	Oct. 25	4.00	35.00
Thanksgiving Gem. Orange bronze..	Medium	Button	Thanksgiving	3.00	27.50
*Thyra. Dark pink .....	Tall	L. Pompon	Nov. 1	3.00	27.50
Tokyo. Yellow .....	Medium	L. Button	Dec.	3.00	27.50
Tom Pearson. Deep gold .....	Tall	L. Pompon	Nov. 15	8.00	75.00
Tonquin. Rose color .....	Medium	L. Pompon	Dec. 10	3.00	27.50
Topaz. Chestnut mahogany bronze..	Medium	L. Pompon	Thanks. & Later	3.00	27.50
*Unalga. Yellow .....	Medium	L. Pompon	Nov. 25	3.00	27.50
Usona. Pink .....	Medium	L. Pompon	Thanksgiving	3.00	27.50
Uvalda. White .....	Medium	L. Pompon	Oct. 10	3.00	27.50
Varsity. Yellow .....	Short	Button	Nov. 10	3.00	27.50
*Vera Victoria. Yellow .....	Medium	L. Pompon	Nov. 1	3.00	27.50
Western Beauty. Old rose .....	Short	L. Pompon	Nov. 15-25	3.00	27.50
*White Doty. White .....	Medium	L. Pompon	Nov. 1	3.00	27.50
Yellow Bird. Yellow .....	Medium	L. Pompon	Nov. 18	3.00	27.50
Yellow Dot. (Jablonsky) Yellow. Sport of Pink Dot .....	Medium	L. Pompon	Oct. 25	3.00	27.50
*Yellow Doty. Yellow .....	Medium	L. Pompon	Nov. 1	3.00	27.50
Yellow Fellow. Yellow .....	Medium	L. Pompon	Nov. 15	3.00	27.50
*Yellow Muskoka. Bronzy yellow.....	Tall	L. Pompon	Nov. 10	3.00	27.50
Yellow New York. Yellow. Sport of New York .....	Medium	Button	Nov. 15	3.00	27.50
Yellow Silver Star. Yellow. Sport of Silver Star .....	Tall	L. Pompon	Dec. 10	5.00	40.00
Yuletide, White. White .....	Short	L. Pompon	Dec. 1	3.00	27.50
Yuletide, Yellow. Yellow .....	Short	L. Pompon	Dec. 1	3.00	27.50
*Yuvawn. Yellow .....	Medium	L. Pompon	Nov. 25	3.00	27.50
Yvonne. Red .....	Short	S. Button	Oct. 30	15.00	125.00
Zenobia. Yellow .....	Short	Button	Oct. 10-20	3.00	27.50
Zoe. Golden bronze .....	Medium	L. Button	Nov. 20	3.00	27.50
Zoroka. Yellow with bronze tip.....	Medium	Button	Oct. 30	5.00	40.00

\*—Good disbudded.

†—Good as pot plants.

## Anemone Flowered Varieties

Name and Description	Height	Matures	Price	
			Per 100	Per 1000
*Adenlair. Shell pink .....	Medium	Nov. 15-20	\$3.00	\$27.50
*Admiration. Orchid with lighter reverse	Medium	Oct. 28	5.00	40.00
*—Good disbudded.				
†—Good as pot plants.				

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# Anemone Flowered Varieties (Continued)

Name and Description	Height	Matures	Price	
			Per 100	Per 1000
* <b>Aloysia.</b> Bright yellow with slight red shading on reverse .....	Medium	Nov. 1	5.00	40.00
* <b>Antigo.</b> Purplish crimson .....	Medium	Oct. 25	10.00	90.00
†* <b>Beautiful Lady.</b> Bright pink petals with creamy white cushion .....	Short	Nov. 20	3.00	27.50
* <b>Berneita.</b> Shell pink petals. White cushion.....	Medium	Nov. 1	3.00	27.50
* <b>Betty Rose.</b> Pink, both petals and cushion.....	Medium	Oct. 25-Nov. 1	3.00	27.50
* <b>Birdine.</b> Light orchid .....	Tall	Oct. 28	5.00	40.00
* <b>Blanche.</b> White .....	Medium	Oct. 27	3.00	27.50
* <b>Bronze Groff Von Oriole.</b> Bronze.....	Medium	Nov. 15-20	3.00	27.50
* <b>Bronze Norma.</b> Bronze. Sport of Norma.....	Medium	Nov. 10-Dec.	10.00	90.00
<b>Bronze Volunteer.</b> Rich bronze. Sport of Volunteer	Medium	Thanksgiving	3.00	27.50
* <b>Buff Queen.</b> Bronzy buff .....	Medium	Nov. 1	3.00	27.50
* <b>Calypso.</b> Orange suffused with pink.....	Tall	Oct. 28	5.00	40.00
* <b>Captivation.</b> Mahogany red. (Exhibition).....	Tall	Nov. 10	3.00	27.50
* <b>China Rose.</b> Dragon's blood red .....	Medium	Nov. 10	3.00	27.50
†* <b>Crimson Glow.</b> Crimson maroon .....	Medium	Nov. 25-30	3.00	27.50
* <b>Dark Pink Norma.</b> Dark amaranth pink.....	Medium	Nov. 10-Dec.	3.00	27.50
<b>Early Garza Supreme.</b> White .....	Short	Nov. 25	7.00	65.00
* <b>Espy's Dark Pink Supreme.</b> Sport of Pink Supreme.	Tall	Nov. 30	7.00	65.00
* <b>Estrelita.</b> Bronze throughout, with a full regular cushion .....	Medium	Nov. 15 & Later	3.00	27.50
† <b>Eugene Langalet.</b> Bright yellow .....	Short	Thanksgiving	3.00	27.50
* <b>Eva Le Gallienne.</b> Crushed raspberry with center of gold .....	Medium	Oct. 25	12.00	100.00
* <b>Freida.</b> Pink .....	Medium	Nov. 15	6.00	55.00
<b>Garnet.</b> Red .....	Tall	Nov. 20-25	3.00	27.50
<b>Garza Supreme.</b> White .....	Short	Dec.	3.00	27.50
<b>Godfrey's Perfection.</b> White .....	Short	Thanksgiving	3.00	27.50
<b>Golden Lida Thomas.</b> Golden yellow.....	Medium	Thanksgiving	3.00	27.50
* <b>Golden Pheasant.</b> Yellow .....	Medium	Nov. 25	3.00	27.50
†* <b>Graceland.</b> Pure white, with yellow center.....	Short	Oct. 25	3.00	27.50
†* <b>Izola.</b> Amaranth .....	Medium	Nov. 1	3.00	27.50
* <b>John Shields.</b> Light yellow .....	Medium	Nov. 10	3.00	27.50
†* <b>Laelia.</b> Rose pink .....	Short	Nov. 1	3.00	27.50
* <b>La Nona.</b> Petals rosy amaranth, buff cushion.....	Medium	Nov. 20	3.00	27.50
<b>Lida Thomas.</b> White petals, and yellow centers.....	Medium	Thanksgiving	3.00	27.50
†* <b>Margo.</b> Pinkish violet outer petals, with high, round, yellow cushion .....	Short	Nov. 5	3.00	27.50
* <b>Marietta.</b> Soft pink with very full cushion .....	Medium	Oct. 20	3.00	27.50
* <b>Maritza.</b> Bright yellow with full highly rounded cushion .....	Medium	Thanksgiving	3.00	27.50
† <b>Millie.</b> Light yellow .....	Medium	Nov. 15	4.00	35.00
<b>Mrs. Alfred G. Wilson.</b> White .....	Medium	Nov. 5	3.00	27.50
* <b>Norma.</b> Orchid pink petals with golden pink cushion .....	Medium	Nov. 10-Dec.	3.00	27.50
†* <b>Noveltie.</b> White throughout, with large cushion	Short	Nov. 15	3.00	27.50

\*—Good disbudded.

†—Good as pot plants.

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## Anemone Flowered Varieties (Continued)

Name and Description	Height	Matures	Price	
			Per 100	Per 1000
*Orange Glow. Rich orange .....	Medium	Nov. 10	3.00	27.50
†Orchid Beauty. Orchid with golden cushion.....	Medium	Nov. 15	8.00	75.00
†*Pink Lady. Pink petals with light pink cushion.....	Short	Nov. 15	3.00	27.50
*Pink Supreme. Delicate shell pink petals, with cushions somewhat lighter .....	Tall	Nov. 30	3.00	27.50
*Pomona. White petals with straw colored cushion	Medium	Nov. 1	3.00	27.50
†*Red Rolinda. Red. Sport of Rolinda.....	Medium	Nov. 20-Dec. 1	7.00	65.00
Rio Rita. Yellow .....	Medium	Nov. 10	3.00	27.50
†*Rolinda. Orange bronze .....	Medium	Nov. 20-Dec. 1	3.00	27.50
*Rose Madder. Deep rose pink .....	Medium	Oct. 25	5.00	45.00
*Smith's Innocence. White .....	Tall	Nov. 5	3.00	27.50
*Stoplight. Terra cotta petals with low yellow cushion .....	Medium	Nov. 5	3.00	27.50
Sunray. Yellow .....	Medium	Nov. 15	4.00	35.00
†*Sunshine. Yellow .....	Short	Thanksgiving	3.00	27.50
*Susanne Miller. Yellow. Sport of Norma.....	Tall	Nov. 10-Dec. 1	3.00	27.50
*The Belle. Pure white .....	Medium	Nov. 1-5	3.00	27.50
*The Titan. Scarlet crimson with bronzy red cushion	Medium	Nov. 5	3.00	27.50
*Topknot. Creamy white cushion, rosy pink petals....	Tall	Nov. 5	3.00	27.50
*Triumph. Golden bronze .....	Medium	Oct. 25	3.00	27.50
*Tuxedo. Pink .....	Medium	Nov. 10	3.00	27.50
*Verona. Golden buff, full cushion .....	Medium	Oct. 20	3.00	27.50
Volunteer. Yellow .....	Medium	Thanksgiving	3.00	27.50
*White Berneita. White .....	Medium	Nov. 1	3.00	27.50
†*White Izola. White. Sport of Izola .....	Medium	Nov. 1	7.00	65.00
*White Norma. White .....	Medium	Nov. 1	5.00	40.00
Yellow Blanche. Yellow. Sport of Blanche.....	Medium	Oct. 27	7.00	65.00
Yellow Garza Supreme. Yellow .....	Short	Dec. 1	3.00	27.50
†*Yellow Rolinda. Deep golden yellow. Sport of Rolinda .....	Medium	Nov. 20-Dec. 1	7.00	65.00

\*—Good disbudded.

†—Good as pot plants.

## Single Varieties--Daisy Type

Name and Description	Height	Matures	Price	
			Per 100	Per 1000
Aloma. Terra cotta bronze with yellow center.....	Medium	Oct. 15	\$3.00	\$27.50
†Buckingham. Bronze. Bronze .....	Short	Nov. 5	3.00	27.50
†Buckingham. W. H. Pink .....	Short	Nov. 5	3.00	27.50
Charter Oak. Yellow .....	Tall	Nov. 25	3.00	27.50
Christmas Cheer. Scarlet. Sport of Mrs. E. D. Godfrey .....	Medium	Thanksgiving	3.00	27.50
Dusky Maid. Yellow .....	Medium	Thanksgiving	3.00	27.50
Elizabeth Firestone. Pink .....	Medium	Nov. 15 & Later	3.00	27.50
Elizabeth McDowell. Bronze .....	Medium	Nov. 15	3.00	27.50
Golden Gleam. Yellow .....	Medium	Nov. 20	3.00	27.50
Golden Mensa. Yellow .....	Medium	Nov. 10	3.00	27.50
Gretchen Piper. Deep glowing yellow .....	Medium	Oct. 25	3.00	27.50
Hasegawa Poinsettia. Poinsettia red .....	Medium	Thanksgiving	7.00	65.00
Helen Hubbard. Red .....	Medium	Thanksgiving	3.00	27.50
†Ida Skiff. Bronze .....	Short	Nov. 1	3.00	27.50

\*—Good disbudded.

†—Good as pot plants.

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## Single Varieties--Daisy Type (Continued)

Name and Description	Height	Matures	Price	
			Per 100	Per 1000
Lady Astor. Bright crimson .....	Medium	Thanksgiving	10.00	90.00
Margaret Waite. Cerise pink. Sport of Mrs. E. D. Godfrey .....	Tall	Thanksgiving	3.00	27.50
Mason's Bronze. Burnt orange .....	Medium	Nov. 5	10.00	90.00
†Melba. Reddish bronze in unusual shades .....	Medium	Nov. 5	3.00	27.50
Miss Isabelle. Bronze .....	Tall	Thanksgiving	3.00	27.50
Mrs. Darling. Red .....	Medium	Nov. 1	3.00	27.50
Mrs. E. D. Godfrey. Light pink .....	Medium	Thanksgiving	3.00	27.50
Mrs. Herbert Hoover. Orange bronze .....	Medium	Thanksgiving	3.00	27.50
Murray Hill Beauty. Old rose .....	Medium	Thanksgiving	3.00	27.50
Radiant. Bright red .....	Medium	Nov. 5-10	5.00	40.00
*Red Rover. Crimson orange .....	Medium	Nov. 5	7.00	65.00
Rich Red. Red .....	Medium	Nov. 10	3.00	27.50
Ruth Adams. Bronze .....	Medium	Nov. 5	3.00	27.50
Ruth Warren Smith. Golden buff yellow overlaid with red .....	Medium	Nov. 10	3.00	27.50
Sunny Boy. Yellow .....	Medium	Nov. 15	4.00	35.00
Sunset. Yellow .....	Medium	Dec. 10-25	7.00	65.00
†Tagoya. Brilliant goya red .....	Short	Nov. 1-5	8.00	75.00
†Thanksgiving Bronze. Dark bronze .....	Medium	Thanksgiving	3.00	27.50
*Valencia. Orchid pink .....	Tall	Nov. 30	4.00	35.00
White Godfrey. White .....	Medium	Thanksgiving	3.00	27.50
White Mensa. White .....	Medium	Thanksgiving	3.00	27.50
Woburn. Pink .....	Tall	Nov. 15	4.00	35.00
Yellow Godfrey. Yellow .....	Medium	Thanksgiving	3.00	27.50

\*—Good disbudded.

†—Good as pot plants.

## Pot Plant Varieties

In addition to varieties listed here as essentially intended for pot plant culture, many of the varieties listed under Pompons are excellent as pot plants. Short and medium sorts should be used for this purpose. A number of such varieties are denoted by the character (†).

Name and Description	Height	Type	Matures	Price	
				Per 100	Per 1000
Benoit. Deep pink .....	Short	L. Pompon	Oct. 20-25	\$3.00	\$27.50
Bright Light. Bright yellow .....	Short	L. Pompon	Nov. 20	3.00	27.50
Bronze Prince. Bronze .....	Short	L. Pompon	Nov. 1	3.00	27.50
Caprice, Butler. Deep pink .....	Short	L. Pompon	Oct.	3.00	27.50
Caprice, Lilac. Deep lilac .....	Short	L. Pompon	Oct.	3.00	27.50
Caprice, Purple. Purple .....	Short	L. Pompon	Oct.	3.00	27.50
Caprice, White. White .....	Short	L. Pompon	Oct.	3.00	27.50
Caprice, Yellow. Yellow .....	Short	L. Pompon	Oct.	3.00	27.50
Floradora. Light bronze florets, orange cushion .....	Short	Anemone	Nov. 1	3.00	27.50
Greystone. Golden orange .....	Short	L. Pompon	Nov. 10	3.00	27.50
Kathleen Thompson. Bronze .....	Short	L. Pompon	Oct.	3.00	27.50
Ohio State. Yellow .....	Short	Anemone	Nov. 1	3.00	27.50
Patty. Pink .....	Short	L. Pompon	Late	3.00	27.50
Pygmy. Light pink .....	Short	L. Pompon	Nov. 10	3.00	27.50
Savanta. White, with tint of pink....	Short	L. Pompon	Nov. 1	3.00	27.50
Titian Beauty. Deep rich bronze, shading in center to scarlet.....	Short	Anemone	Nov. 25	3.00	27.50
W. H. Lincoln. Yellow .....	Short	L. Pompon	Late	3.00	27.50

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# Hardy Varieties

Name and Description	Height	Select Bud	Matures	Price Per 100	Per 1000
A. Barham. Orange bronze .....	Short	Decorative	Oct. 1	\$3.00	\$27.50
Adelaide. Mahogany .....	Medium	Button	Early Oct.	3.00	27.50
Albert Muller. Apricot suffused with pink .....	Medium	Decorative	Oct. 1	5.00	45.00
Alice Howell. Orange yellow .....	Medium	Single	Oct. 5	3.00	27.50
Aladdin. Bronze .....	Short	Decorative	Sept.	3.00	27.50
Amelia. (Pink Cushion). Bright pink	Short	Decorative	Sept.	3.00	27.50
Barbara Cummings. Yellow shading to bronze .....	Medium	Decorative	Sept.	3.00	27.50
Carrie. Yellow .....	Medium	Decorative	Early	3.00	27.50
Cavalier. Rich vermillion-red .....	Tall	Single	Oct. 15	3.00	27.50
Crimson Splendor. Crimson .....	Medium	Single	Sept.	3.00	27.50
Dazzler. Cardinal red .....	Medium	Single	Oct. 10-15	3.00	27.50
†Early Bronze. Bronze .....	Short	Button	Sept.	3.00	27.50
†Eden. Rose pink .....	Short	Decorative	Oct. 1	3.00	27.50
Evelyn. Bronze .....	Medium	Decorative	Oct. 1-5	3.00	27.50
Francis Whittlesey. Rich bronze and garnet .....	Short	Decorative	Sept. 30	3.00	27.50
Ganna. Bright pink .....	Medium	Decorative	Oct. 12	3.00	27.50
†Glada. Soft pink .....	Short	Decorative	Sept.	3.00	27.50
Glomero. Bronzy orange .....	Medium	Button	Oct. 5	3.00	27.50
Granny Scoville. Warm coral bronze	Dwarf	Decorative	Oct. 15	3.00	27.50
Gypsy Girl. Chestnut crimson.....	Short	Single	Early Oct.	3.00	27.50
Indian Summer. Bronze .....	Medium	Single	Oct. 25	15.00	135.00
Jack Banister. Light yellow .....	Medium	Decorative	Oct. 10	3.00	27.50
Jean Cummings. White .....	Medium	Decorative	Sept.	3.00	27.50
Jean Treadway. Pink with dark centers	Medium	Decorative	Oct. 1-10	3.00	27.50
†Judith Anderson. Yellow .....	Short	Button	Oct. 25	12.00	100.00
Little Barbee. Red .....	Medium	Button	Oct. 15-20	3.00	27.50
Little Bob. Dark bronze .....	Short	Button	Oct. 1	3.00	27.50
Lorelei. Yellow .....	Medium	Decorative	Sept. 10	3.00	27.50
Margot. White .....	Short	Button	Oct. 8	3.00	27.50
Metzi. Yellow .....	Medium	Button	Oct. 15-20	3.00	27.50
Mrs. Calvin Coolidge. Cardinal red	Medium	Single	Oct. 15-20	3.00	27.50
Mrs. L. Birchard. Shel' pink .....	Medium	Button	Oct. 10-15	3.00	27.50
Muldoon. Purplish amaranth .....	Medium	Button	Oct. 12	3.00	27.50
Murillo. Pink .....	Medium	Decorative	Oct. 12	3.00	27.50
Normandie. White .....	Short	Decorative	Sept.	3.00	27.50
October Girl. Rose pink .....	Short	Decorative	Early Oct.	3.00	27.50
Provence. Soft pink blended with yellow .....	Medium	Decorative	Sept.	3.00	27.50
Red Flare. Bright red .....	Medium	Button	Oct. 15	3.00	27.50
R. Marion Hatton. Canary yellow....	Medium	Decorative	Oct. 1-10	3.00	27.50
Rosy Gem. Bright pink or rose.....	Medium	Decorative	Oct. 15	3.00	27.50
Ruth Cummings. Reddish bronze .....	Medium	Decorative	Early Oct.	3.00	27.50
Ruth Hatton. Ivory white .....	Short	Decorative	Oct. 10	3.00	27.50
September Queen. White .....	Short	Decorative	Sept.	3.00	27.50
Sonoma. Bronze with golden reverse	Short	Decorative	Oct. 1	3.00	27.50
Tasiva. White .....	Medium	Decorative	Sept.	3.00	27.50
Vivid. Rosy crimson .....	Medium	Decorative	Oct. 1-10	3.00	27.50
Winnetka. White .....	Medium	Decorative	Oct. 1	3.00	27.50
Wolverine. Yellow .....	Medium	Decorative	Sept.	3.00	27.50
†Yellow Gem. Canary yellow .....	Medium	Button	Oct. 5-10	3.00	27.50
Yellow Normandie. Yellow .....	Medium	Decorative	Early	3.00	27.50

†—Good as pot plants.

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# Hardy Korean Varieties

Name and Description	Height	Type	Matures	Price	
				Per 100	Per 1000
Aphrodite. Pink .....	Short	Single	Oct. 15	\$12.00	\$100.00
Apollo. Bronze red .....	Medium	Single	Oct. 12	6.00	50.00
Ceres. Old gold .....	Medium	Single	Oct. 10	6.00	50.00
Country Girl. Pink .....	Tall	Single	Oct. 10	6.00	50.00
Daphne. Pink .....	Medium	Single	Oct. 12	6.00	50.00
Diana. Rose pink .....	Medium	Single	Oct. 12	6.00	50.00
Hebe. Lavender pink .....	Medium	Single	Oct. 15	8.00	75.00
Innocence. White .....	Short	Single	Sept.	6.00	50.00
Louise Schling. Bronze salmon .....	Medium	Single	Oct. 5	6.00	50.00
Mars. Wine red .....	Medium	Single	Oct. 15	6.00	50.00
Mercury. Blend of old rose and salmon .....	Medium	Single	Sept. 30	6.00	50.00
Orion. Canary yellow .....	Medium	Single	Oct. 5	8.00	75.00
Romany. Reddish bronze .....	Medium	Decorative	Nov. 1	15.00	135.00
Saturn. Bronze .....	Medium	Single	Oct. 20	12.00	100.00
Venus. Pink .....	Medium	Single	Oct. 20	12.00	100.00
Vulcan. Bronze crimson .....	Medium	Single	Oct. 5	8.00	75.00

## A Few Cultural Suggestions

### Soil

A fairly light loam, one that is neither really heavy nor very light, suits Chrysanthemums very well, and this avoiding of extremes in soil texture goes for most cut flower crops. The good tilth or condition of the soil is important. This is influenced by drainage that must be such that it will not remain wet too long. Lack of good drainage in deep ground beds is not responsible for every weak, lifeless lot of mums we meet with, for there are other factors we will touch upon; but poor drainage helps along any trouble that is present in the soil. Wet, soggy soil, one that packs and lacks aeration is certain to rot the roots and that means production is not usually so uniformly good, tho, as it is on raised shallow beds where drainage is, of course, perfect. Used soil in ground beds is all right for mums. In fact, the accumulated fertility in it will produce a freer growth than fresh soil, we find, but after two or three years enough harmful material accumulates through heavy watering and manuring to interfere with the growth of mums too. We get our soil back into fine shape again by drenching it thoroughly with hot water. If applied at 200°, it has some sterilizing value. Steam sterilizing followed by drenching with cold water is, no doubt, equally as good—maybe better. Important to remember is that annual or heavy application of manure to soil accumulates trouble in it. Outdoors this is taken care of by frost and drenching rains that can not serve us in the greenhouse. Condition or management of the soil is really the foundation of the crop, so pay attention to it, especially to drainage that permits air circulation at the roots.

### Cold Houses

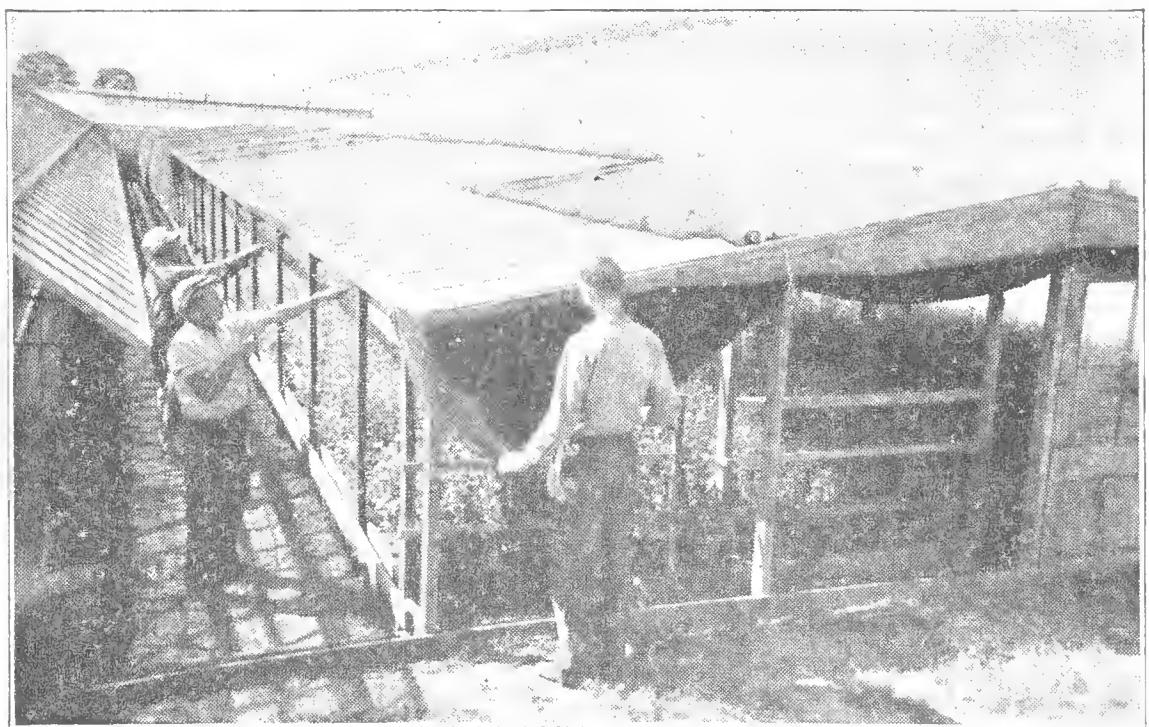
For some years we have been using what we refer to as Cold Houses for our shaded mums. As will be noted in the several pictures, these houses are without sides and ventilators. They are as nearly perfect for mum growing as they can be and their low cost greatly reduces the high overhead figure that must be charged on the big modern structures. This overhead is frequently the profit. These houses can either be made up of sash, which was used in the house pictured on page 20

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or built more permanently. When constructed of used material we find the cost moderate, around 30c per sq. ft. covered. These houses are largely used for the big standards that must be protected more closely against rot or spotting than pompons. We run a few 1 inch steam pipes through these houses for we sometimes have days of damp cold weather and occasionally a real frost that should be guarded against with the drying effect of some heat.

The past season we noted a successfully flowered crop in an outdoor 6 ft. bed with a frame built over it for covering with sash; instead of glass the sash were covered with a water proofed cloth. This protection was not used until after buds were taken. We should add that the frame work for the sash also served for the black cloth shading. This low cost plan was noted about Philadelphia, but I believe that with the use of early October varieties, it would be successfully used in our earlier frost latitude. We are planning to try it out with 60 day varieties, starting the shade July 15th. With such open-side construction as this, or our cold houses, some trouble must be anticipated with outdoor insects, such as grasshoppers and corn-borers which did us some damage last season. Only effective thing we could do was hand pick them, but for the benefit of chewing insects generally, nothing is more efficient than Arsenate of Lead, except for the corn-borer that bores into the flowers. For leaf tyers, nothing is better than the Pyrethrum sprays, and when mealy bugs must be contended with, use Lethane 420.

We must, in our latitude, be prepared to protect young stock from frost if planted out before the 15th or 20th of May. For good Commercial flowers we space to allow around 50 sq. inches for each stem or flower, somewhat more, about 7x8 for strong growing or large leaved kind and 6x8 for the general run of varieties. This fall we noted several good growers, using two plants together, spacing 8x12, instead of individually 6x8. This probably allows freer circulation of air, and it does per-



Showing method of applying black-cloth shade. This shading plan requires two men, a half-hour to let down the cloth, and the same time to put up. Much less cloth is required when covered in this way than when beds are covered, side and top individually. In large houses with no obstructing posts, the entire area, including walks should be covered as a single unit.

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mit freer use of tools in cultivating early in the season. We note too that many growers who retail their flowers grow 2, 3 and 4 flowers to a plant, but in our very competitive Wholesale Market, these smaller flowers would not pay. We note that in England the larger flowers are not so popular, three or four smaller ones being considered of more value than a larger one. In Paris, on the other hand the bigger they are the better they like them. This means that we must know what our market prefers, and plan accordingly.

A few words on the taking of buds. As a rule we find that the terminal is the safest. This is usually the second one, so called because it terminates the growth. The first or crown bud shows up early and is distinguished by growths instead of buds appearing from below the central or crown bud. The crown bud sometimes produces extra large flowers but we might say, frequently, these rather premature buds produce imperfect flowers. With shaded stock, no consideration need be given this question for this treatment usually produces terminals.

## Shading for Early Flowering

This means that either the pompon or big standards are flowered within 50 to 75 days from the date shading begins—the late varieties require the longer time. This somewhat unnatural trick does not in any way affect the vigor of the stock, but the color of some varieties is changed due to flowering during warmer weather than they naturally do. In England where mums are flowered from mid-summer on, and possibly under some American conditions, this early flowering might not be so desirable, but the objection occasionally heard, that this early stock cannot compete with Dahlias and Asters, is a mistake, for, when well grown and proper varieties used, the flowers are perfect in every way, and are looked forward to with the first suggestion of Fall weather. Though some specialists get the big mums in around Sept. 1st, we do not recommend doing so earlier than the beginning of cooler weather, which is around Sept. 15th in our latitude. When flowered during warm periods such as we get up to Sept. 15th, the flowers are softened and there is danger of loss through spot or rotting of flowers. Unless only hard varieties are used, there might be some loss after Sept. 15th.

There are various methods of adjusting black cloth shading to a bed of mums. Our plan of running the cloth over the house pictured on page 20, will, of course, only do for rather small houses somewhat protected from high wind. In large wide houses, without interfering posts, the cloth is run over the entire area, walks and all. This saves considerable because the cloth on the sides of beds shaded individually, is frequently half the total used, but, when we have an individual bed to shade, a light framework is built over it to support lengthwise wires. Over this the cloth is unrolled. For the sides, cloth wide enough to reach the ground is suspended from a top, side wire, by means of eyelets in the edge of the cloth. This plan permits the cloth to be pushed out of use during the day. The same plan for the sides is used when an entire house is covered as a unit. Black sateen cloth is generally used for shading. Costs around 18-20c per square yard and if stored dry, when not in use, and where mice won't get into it, we find it good for three years. We have noted several growers making successful use of a strong grade of building paper. This should work out nicely for at least the top of beds, for there is no reason why it cannot be unrolled over the top and weighted down, if necessary. But for the sides, cloth will, no doubt, work better. Use of paper will greatly reduce the one costly factor—black cloth. Any material will do, of course, that will shut out the light to what it naturally is when nearly dark, not necessarily totally dark. Also, if a few days' shading are missed or the cloth blown off in the night a few

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One of our cold houses—pipe-frame construction. No ventilators or side walls. Ideal growing conditions for this crop. Silver Sheen is shown. We find it an excellent early white, being particularly hard and not easily spotted by rot. This is a very important point when flowered during hot weather. Some growers report Betsy Ross even better for this early crop,—not quite so hard as Silver Sheen, but larger and better formed. Stock shown was planted May 5th, shading begun July 15th, photographed September 12th.

times, it will not affect the final setting of buds that should take place in 3-4 weeks with big mums. Soon as buds are large enough to safely take, discontinue the shading, except on the pompons. Shading should be continued on them until first or center buds show color, or are ready to open. Unless this is done, the side or lower buds will not be set along with those about the top, resulting in fewer flowers.

Probably the most important point in this early flowering method is planting early and using unchecked young stock. Reason is to get enough stem before shading starts, for, of course, the setting of buds nearly ends lengthening of stem, around 12-18 in. more can be counted on for big mums and 10-12 in. for the pompons. Naturally, long-stemmed kinds under favorable conditions will draw some longer. Stock propagated late January or February is all right, especially for pompons, but if this early stock is checked or hardened through getting too dry, or overcrowding, it will be clearly better to use a late February or March start. In fact, we supply several of the largest growers with their entire supply of stock in the form of rooted cuttings at the proper planting dates,—usually in May.

A check in young stock has a far more stunting effect on growth than is generally appreciated, and when good cuttings are used for direct planting, there is little or no danger of it being checked. Unskilled labor is the principal cost in a crop of mums; little or no fuel, and cuttings at \$25.00 per 1000 make it an inexpensive crop to produce; but the margin of profit is not unduly large and cost account records will show that it entirely disappears if it is not well grown. So keep in mind these important points: Well drained soil, unchecked growth, insects, and the best varieties.

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## The Large Mums

We usually find well grown pompons pay out better than the large mums because of labor involved, but pompons are more easily overdone and this might become especially true of the shaded crop, so we mustn't pass up the big ones, but there is no worth while demand for them in our section until after mid-September. Around the first of September a few of the big, rather coarse California flowers are attractive for the store, but in our latitude, we do not find the average returns on big shaded stock profitable much earlier than mid-September. We find that the earliest propagated stock, that we usually start late January and early February, is frequently not so desirable because it easily gets somewhat hardened or overgrown. When young stock gets a check in this way it clearly shows up along side a lot of cuttings that have grown right along without a check.

Complaints are sometimes received of chrysanthemums being diseased, - lower foliage dried up and lacking free growth. While much of this is due to lack of drainage and diseased soil, we know from experience that it is sometimes caused by the young stock becoming hardened or checked before planting. Cuttings put in the sand late in March, rooted slow and planted out early in May from the sand, will sometimes get ahead of an earlier started lot. However, a February start planted in a cold house usually makes very nice planting stock if given reasonable care.

## Pompons

In our latitude pompons that we start shading July 15th can, three seasons out of four, we find, be successfully flowered in the open without glass. Varieties as early as Irene are generally safe, but those coming in a week or so later are naturally of better quality, and we find it pays to use them and to run a few inch steam pipes through the beds. Further protection is afforded by the black shading cloth that is left in position ready to pull over them when and if needed. Also, throughout the summer we shade them with the same cloth used for aster houses. This provides some protection against cold winds but its more important use is to shelter against the hot sun and drying winds of summer. This light shade also tends to draw the growth and to keep it from hardening. For this outdoor crop that we start shading July 15th, with protection as suggested, we use only varieties that flower naturally in October. Our preferred list in this class is Nuggets, Improved Rodell, Pink Dot, Jewell and Irene, and there are others.

We find glass protection necessary for such as flower naturally in November - shading could be started earlier on the later kind, flowering them around October 1st or a week later, but we find it difficult to get long enough stems to start shading much earlier than July 15th. In shading pompons, we find they lengthen from the time shading begins 12-15 in.: the height or length of stem, when in flower can be figured by their height when shading starts. If the plants are rather short at this time, better forget the shade and let them come naturally.

Every season shaded pompons can be seen on most markets that are unprofitably short-stemmed. Planting early is, of course, necessary to get good stems. We try to get this finished around May 10th-15th.

We space most of our pompons 8x8, though 6x8 in. is plenty for such as make a rather spare growth; -New York, Chicago Pearl are examples of such. We hardly find Princeton profitable either, unless spaced close. Of course, the size of the planting stock and the success of its growth will determine how well it will fill out, but lots of pompons are planted that would have yielded heavier if closer spacing had been used.

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## Do Mums Pay?

Not unless you get a clean vigorous growth into them, get much of the work done with unskilled help, and use good, not necessarily the newest varieties. We find our cold house idea increases the quality and reduces costs. We also find that shading for early flowers pays, and we are interested, too, in the possibilities of a kraft paper instead of cloth for shading. We have been growing mums a long time and are at your service.

GEO. J. BALL.

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## The Chrysanthemum Society of America

If there are but two florists in a community, they will, if they are going to flourish, get together. To prosper we must exchange ideas and stabilize the prices of our product. If we won't we mustn't blame a paternalistic government for trying to compel us to do so. This co-operative spirit, of course, extends to the specialists in our business.

Shading for early flowers and greatly improved varieties is running the annual value of Chrysanthemums into millions of dollars. And,—do you realize that this interest has been fostered and promoted to what it is today by the "Chrysanthemum Society of America," and that this Society was established 56 years ago? Its annual exhibition and meeting is the authoritative Chrysanthemum occasion of the year. To keep its members in close touch with the latest information on culture and varieties, the Society issues a quarterly bulletin. Your interest in Chrysanthemums will profit by receiving this bulletin and going along with us. If not already a member, fill in the following and mail it to the Society's Secy., Arno Nehrling, 300 Massachusetts Avenue, Boston, Massachusetts, or to—Yours Truly. GEO. J. BALL.

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Enclosed find \$5.00 for an Annual Membership in the Chrysanthemum Society of America.

Name .....

Address .....

City ..... State .....

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